



WW Engineering & Science

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ARCS Program Management Office

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357048

TRANSMITTAL FORM

Date: January 18, 1994

Attention: Ms. Laura Ripley
To: U.S. Environmental Protection Agency
77 West Jackson Blvd., HSRL-6J
Chicago, IL 60604

Project No.: 04015.10
Client: U.S. EPA
Project Name: Wisconsin Steel
Site Name:
Location: Wisconsin

WE ARE SENDING YOU:

BY: ☒ U.S. Mail ☐ UPS ☐ Federal Express ☐ Other: _____

ENCLOSED WITH THIS TRANSMITTAL:

UNDER SEPARATE COVER:

<input type="checkbox"/> Work Plan(s)	<input type="checkbox"/> Report(s) (DRAFT) (FINAL)	<input type="checkbox"/> Contract Documents
<input type="checkbox"/> Specifications	<input type="checkbox"/> Design Plans	<input type="checkbox"/> Change Order No.
<input type="checkbox"/> Shop Drawings	<input type="checkbox"/> Proposal(s)	<input checked="" type="checkbox"/> Comments

QUANTITY	DESCRIPTION / DOCUMENT NAME
1	Comments on the USACE Proposed Monitoring Well Locations
1	Diskette of same in Word Perfect 5.1.

THESE ARE TRANSMITTED AS CHECKED BELOW:

<input type="checkbox"/> For Approval	<input type="checkbox"/> For Your Information	<input checked="" type="checkbox"/> For Your Use
<input type="checkbox"/> For File	<input type="checkbox"/> Furnished As Requested	<input type="checkbox"/> As Corrected
<input type="checkbox"/> For Review and Comment	<input type="checkbox"/> Revise and Resubmit	<input type="checkbox"/> For Field Use
<input type="checkbox"/> Rejected	<input type="checkbox"/> _____	<input type="checkbox"/> For Submittal To: _____

REMARKS:

cc: 04015.23, 32

BY:

Theodore A. Lietzke

Theodore A. Lietzke, Site Project Manager

**WISCONSIN STEEL WORKS SITE
PROJECT # 04015.23
COMMENTS ON USACE PROPOSED
MONITORING WELL LOCATIONS**

During a meeting with the U.S. Army Corp. of Engineers (USACE - Buffalo), we were asked to comment on proposed monitoring well locations at the Wisconsin Steel Works Site (WSW) in Chicago, Illinois. The USACE requested that these comments be completed by mid-January, 1994, prior to their preparation of a Phase II Work Statement for contractor quotations.

Our technical review of the "Site Characterization Interim Report (9/93)" was completed on November 4, 1993. Among the chief concerns addressed within the comments were the following:

- Characterization/Investigation of LNAPLs via water table monitoring wells. (No water table wells have been completed on the site. Nonetheless, free-floating petroleum product appears to have been observed in several monitoring wells, including MW-5 and MW-19.)
- Investigation of the site-specific stratigraphy beneath the Wadsworth Till as well as sampling and analysis of these deeper geologic units possible DNAPL contamination (especially in the vicinity of the former Coke Plant - Area II).

In response to the above comments, the USACE has proposed the installation of six Carmi Sand monitoring wells (all of which we assume will be water table wells) and eight deep monitoring wells set on the "top of rock" (assumed to mean above the bedrock), existing 50 to 80 feet below land surface based on the Interim Report.

The USACE's monitoring well proposal included a 4-page submittal with a brief rationale for each monitoring well location. In general, their proposal does address the two concerns listed above.

CHARACTERIZATION/INVESTIGATION OF LNAPLS

We concur with the location of shallow wells proposed as MW26A, MW27A, MW29A, and MW30A.

Proposed monitoring wells MW-31A and MW-32A appear to be located very close to previously-installed MW-5 and MW-19 where free-floating product is suspected. We recommend that in addition to MW31A a water table well be placed very near MW19 and a second well be placed to the east toward SB01. These additional wells will provide better local hydraulic information and will be useful in determining the potential extent of any LNAPL. Well MW32A should be installed within 25 feet of MW5 to assess the potential for LNAPL.

We also recommend that an additional water-table monitoring well, each, be installed in the vicinity of SB-17 in the slag area, MW-28 (a proposed deep monitoring well), MW-16B (unless the USACE can confirm that existing MW-16 is a water table monitoring well), and west of MW20 near the property boundary.

In brief, we recommend that a total of 12 water table monitoring wells be installed, rather than the proposed six monitoring wells.

INVESTIGATION BENEATH THE WADSWORTH TILL

We request that the SOP for the investigation of units beneath the Wadsworth Till be submitted for review before the investigation is authorized. Our chief concern regarding the sampling and analysis of these deeper geologic units is the possibility of cross-contamination via the bore-hole conduit. If contamination is observed in the surficial units, then double-casing of the deeper monitoring wells, or its equivalent, may be necessary to prevent such cross-contamination.

If ground water is not observed on "Top of Rock" then the deep wells should be set in any perched zone below the Wadsworth Till. The boring for the well should penetrate to bedrock to determine depth and the condition of the bedrock surface (lithology, fracture, etc.).

In brief, we concur with the USACE's proposed deep monitoring well locations, and we anticipate that eight such wells are sufficient for this stage of the investigation.